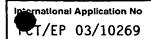
INTERNATIONAL SEARCH REPORT



A. CLASSIFICATION OF SUBJECT MATTER IPC 7 H02J3/12 H02J3/18 H02M5/44

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

 $\begin{array}{ccc} \text{Minimum documentation searched (classification system followed by classification symbols)} \\ \text{IPC 7} & \text{H02J} & \text{H02M} \end{array}$

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

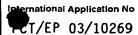
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC, IBM-TDB

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2003/126060 A1 (LOF PER-ANDERS KRISTIAN ET AL) 3 July 2003 (2003-07-03) abstract figure 1	1-6
Y	BLAABJERG F ET AL: "Power losses in PWM-VSI inverter using NPT or PT IGBT devices" POWER ELECTRONICS SPECIALISTS CONFERENCE, PESC '94 RECORD., 25TH ANNUAL IEEE TAIPEI, TAIWAN 20-25 JUNE 1994, NEW YORK, NY, USA, IEEE, 20 June 1994 (1994-06-20), pages 434-441, XP010549405 ISBN: 0-7803-1859-5 page 435 -page 436, left-hand column/	1-6

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.	
 Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filing date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filing date but later than the priority date claimed 	 *T* later document published after the international filing date or priority date and not in conflict with the application but clted to understand the principle or theory underlying the invention *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. *&* document member of the same patent family 	818
Date of the actual completion of the international search 17 June 2004	Date of mailing of the International search report 05/07/2004	
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Zettler, K-R	

INTERNATIONAL SEARCH REPORT



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Υ	BIRD/KING/PEDDER: "An Introduction to Power Electronics" 1993 , JOHN WILEY & SONS , CHICHESTER, NEW YORK, BRISBANE, TORONTO, SINGAPORE XP002284830 2 ISBN: 0 471 92616 7 page 85-86; figures 2.41,2.42	4,5
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